

# Anton Konstantinov

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## Education

- Since 2019 Master's degree in Applied Mathematics and Computer Science, educational program "Big Data and Machine Learning", ITMO University.  
Expected to graduate in 2021
- 2017 – 2019 Student, Computer Science Center, Data Science track.
- 2015 – 2019 Bachelor's degree in Applied Mathematics and Computer Science, educational program "Computational stochastics and statistical models", Saint Petersburg State University, School of Mathematics and Mechanics.  
Diploma with distinction, GPA: 4.85, bachelor's thesis "Estimating genomic distances in de Bruijn graphs"

## Work experience

- Since 2019 Deep Learning research fellow, Insilico Medicine.  
Applying deep learning methods to drug discovery problems
- Summer 2018 Intern C++ Developer, Center for Algorithmic Biotechnology, SPbU.  
Worked on High Performance Computing SPAdes project — a cluster version of genome assembler SPAdes based on MPI.

## MOOC

- 2018 Обучение на размеченных данных (Supervised Machine Learning) by Moscow Institute of Physics and Technology, Yandex & ФПОО on Coursera.  
Verified certificate.
- 2017 – 2018 Data Structures and Algorithms (specialization) by University of California, San Diego & National Research University Higher School of Economics on Coursera.  
Courses: Algorithmic Toolbox, Data Structures, Algorithms on Graphs, Algorithms on Strings, Advanced Algorithms and Complexity. Verified certificates.

## Skills and professional interests

- Data Science Data processing and analysis skills. Firm understanding of classical machine learning models and deep learning models. Hands-on experience in research & development with such tools as NumPy, SciPy, scikit-learn, imbalanced-learn, PyTorch, PyTorch Geometric. Able to quickly understand and implement ideas presented in scientific papers.
- Mathematics Strong mathematical background. Firm knowledge in fundamental fields (abstract algebra, real analysis, probability theory). Skills in applied statistics. Basic understanding of numerical methods.

Programming	Strong overall programming skills. Firm understanding of design and analysis of algorithms. Languages of choice are Python and C++, but can quickly adapt to any modern imperative language.
Python	Over 5 years of hands-on experience in both pet-projects and research & development tasks.
C++	STL, Qt, basic understanding of MPI technology. Two months of production experience in a big open-source project.
Infrastructure	Confident user of GNU/Linux, proficient with terminal tools including fully remote workflow over ssh. Familiar with version control workflow, confident user of Git. Basic understanding of containerization via Docker.
Languages	Russian (native), English (fluent).
Miscellaneous	Confident user of LaTeX.